Service Supplement

M1353A Front-End Board Replacement

The front-end board M1353-69512 that you ordered is not currently available. This substitution kit, M1353-68512, contains front end board M1350-69517 and a Software Upgrade Key. You can perform the upgrade even if the fetal monitor shows an error at startup.

WARNING Electrical power is dangerous. Before removing any parts from the monitor, disconnect the monitor from AC mains power.

1 Exchange the front-end board. This is described in the monitor's *Service Guide*.

2 Upload the software to the device using the upgrade key (see "Upgrade Procedure" below).

3 Confirm that any ordered options (Twins, FMP, Alerting) are activated. If required, contact your local Response Center for further details. You will need to tell the Response Center the product number and the serial number of the monitor.

4 Following the upgrade, perform visual, power on, performance and safety test blocks as described in the monitor's *Service Guide*.

WARNING Safety test requirements are set acccording to international standards, such as IEC/EN 60601-1 and IEC 60601-1-1, their national deviations, such as UL2601-1, CAN/CSA-C22.2 No. 601.1-M90 and No 601.1-S1-94, and specific local requirements.

The safety tests detailed in the monitor's *Service Guide* are derived from international standards but may not be sufficient to meet local requirements.

CAUTION The correct and accurate functioning of the equipment is ensured by the successful completion of the safety tests, performance test, and the system test (if applicable).

5 For reuse, and to avoid environmental pollution, please return the upgrade key, together with the defective board (in the same box) to Philips. Call your local Philips Response Center for details of the return procedures and address.

Upgrade Procedure

1 Disconnect all transducers (and telemetry) from the monitor.

2 Switch on the monitor.

3 Plug the upgrade key into the service socket (to the right of the recorder) on your monitor (if applicable, first remove the little plastic cap on the service socket).
–The "start upgrade" tone sounds (two short beeps) when the upgrade begins.

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–After about 45 seconds the fetal monitor display should change to "**-8-**".

–Within 7 minutes, the display counts down to "**-0-**"

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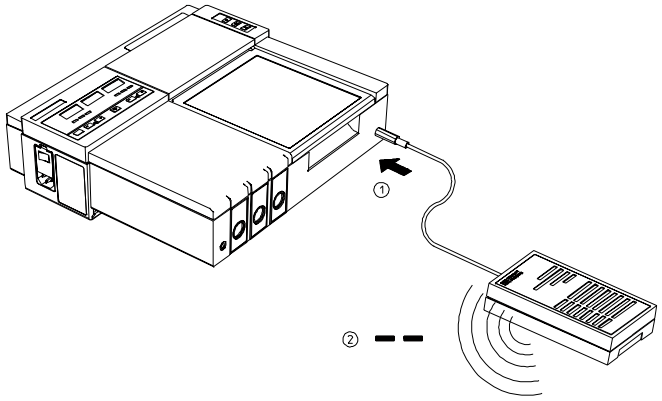
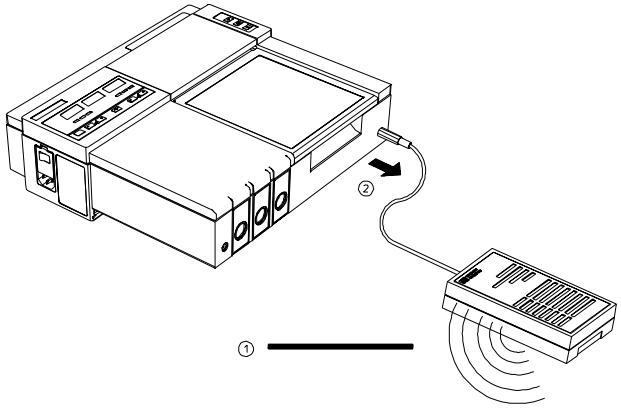


4 At the end of the procedure, you will hear the "upgrade successful" tone (a continuous beep lasting two seconds). The monitor display shows "**-0-**". Unplug the upgrade key from the monitor.
If you don't hear the "start upgrade" tone or you hear the "upgrade failed" tone (a series of short beeps lasting 2 seconds), there may be several reasons:

–The battery in the upgrade key may be low. Replace the battery.

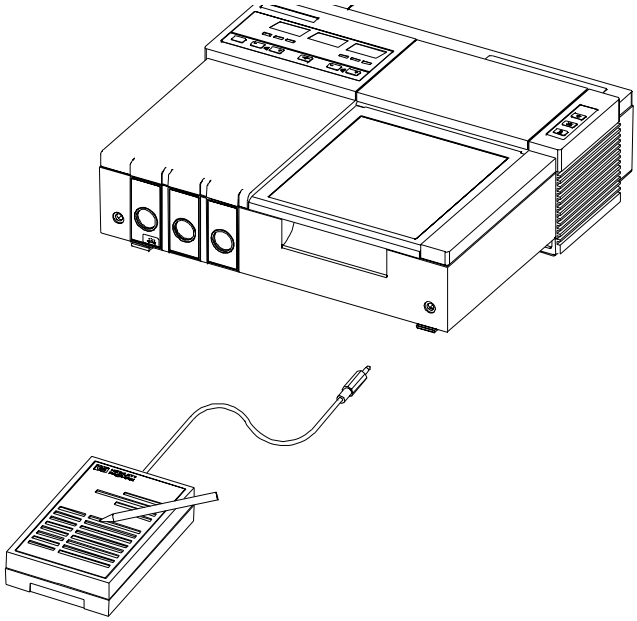
–You may already have carried out upgrades for the maximum number of monitors. The upgrade key is programmed to perform upgrades ordered for up to a maximum of 8 different monitors.



If you hear the upgrade failed tone, (a series of short beeps lasting 2 seconds), disconnect the upgrade key and try again from step 3 above.

If the upgrade still fails, carry out the quick test described in the monitor's *Service Guide*. If the response is not the same as that described in the manual, contact Philips Support Service.

5 Note down the serial number of the upgraded monitor so that you can keep a record of the monitors that have been upgraded.



6 Switch the monitor off and then on: it will perform the power self-test. If an error message is displayed, contact Philips. If "**-8-**" is displayed, the upgrade was not successful. Try the upgrade again from the beginning. If "**--- --- ---**" is displayed, the new software is installed, checked and ready to be used.

Repeat steps 1 to 6 for each monitor to be upgraded.

When the upgrade key has performed as many upgrades as it was programmed to perform, return it to Philips for recycling. Please contact your local Philips Response Center for details.